



© TU Berlin, AG Optoelektronik und Quantenbauelemente

WORKSHOP

BERLIN QUANTUM OPTICS SYMPOSIUM METROLOGY AND IMAGING

18th October 2018

WISTA
Rudower Chaussee 17
12489 Berlin

Part of the Photonic Days Berlin Brandenburg
THE WORKSHOP WILL BE HELD IN ENGLISH

Preliminary Program, 18.10.2018

09:00 - 9:30	registration // exhibition// coffee
09:30 - 09:40	Welcome and introduction Prof. Dr. Stephan Reitzenstein, TU Berlin/Dr. Frank Lerch, Cluster Optik/OpTecBB
09:40 – 10:00	Metrology for single-photon sources and detectors Prof. Dr. Stefan Kück, Physikalisch-Technische Bundesanstalt Braunschweig
10:00 – 10:20	Calorimetric photon-number resolving detectors for quantum metrology Dr. Jörn Beyer, Physikalisch-Technische Bundesanstalt Berlin
10:20 - 10:40	Quantum logic spectroscopy of trapped ions Prof. Dr. Piet O. Schmidt, Institute for experimental quantum metrology, Leibniz Universität Hannover
10:40 - 11:00	Lenssystem(s) for imaging in quantum optics Jakob Silbermann, Bernhard Halle Nachfl. GmbH
11:00 - 11:20	Laser for quantum sources Dr. Andreas Isemann, Laser Quantum GmbH
11:20 - 11:50	Coffee break and exhibition
11:50 – 12:10	Space based optical metrology Prof. Dr. Achim Peters, HU Berlin
12:10 - 12:30	Quantum-dot single-photon sources for entanglement enhanced interferometry Dr. Simone Portalupi, Universität Stuttgart
12:30 - 12:50	Quantum sensors Prof. Dr. Kai Bongs, University of Birmingham
12:50 – 13:10	Compact atomic clocks Dr. Avinoam Stern, AccuBeat Ltd
13:10 - 14:10	Lunch and exhibition
14:10 - 14:30	Genetic quantum measurement Dr. Ivo Pietro Degiovanni, Istituto Nazionale di Ricerca Metrologica
14:30 - 14:50	Mid-infrared quantum imaging and spectroscopy Dr. Sven Ramelow, HU Berlin
14:50 - 15:10	Exploiting quantum effects to study biological processes - counting molecules by photon statistics Caroline Berlage, PicoQuant GmbH
15:10 – 15:30	Sources and components for quantum metrology Dr. Arnold Gillner, Fraunhofer-Institut für Lasertechnik ILT
15:30 – 15:50	Atomic vapor cells as quantum sensors Dr. David Anderson, Rydberg Technologies LLC (tbc)
15:50 – 16:20	Coffee break and exhibition
16:20 – 16:40	Twin-photon source and possible application in quantum imaging Dr. Tobias Heindel, TU Berlin
16:40 – 17:00	Quantum Imaging with incoherent X-Rays Joachim von Zanthier/Maria Chekova, Universität Erlangen
17:00 – 17:20	Sources and components for quantum metrology Prof. Dr. Arno Rauschenbeutel, TU Wien/HU Berlin
17:20 – 17:40	UK National Quantum Technology Programme and QuantIC Prof. Miles J. Padgett, University of Glasgow
17:40 – 18:00	The quantum flagships at full steam – technological challenges meet embryonic markets Dr. Patrick Leisching, TOPTICA Photonics AG



Registration

Workshop

Berlin Quantum Optics Symposium: Metrology and Imaging

Thursday, 18th October 2018

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Please reply before October 13th 2018 to OpTecBB

Online registration: https://optecbb.de/lang/de/anmeldung_20181018_bqosmi.php

Or mail to OpTecBB e.V., Hr. Reschke: optecbb@optecbb.de, Fax: +49-30-6392-1729

Name, first name:

Title:

Institution/company:

Address:

Tel./fax:

E-mail:

By registering you consent to the following:

- all personal data collected via this registration form will, in accordance with the current rules concerning the protection of personal data, be saved, processed and used for the sole purpose of organising the event and for legitimate business interests with regard to providing advice and support.
- during the event, visual images of you may be taken, processed and used in the context of public relations work (print and online media) and for documentation purposes.
- The transmitted data concerning title, first name, surname and company/institution may be made available to all event participants in the form of a printed list of participants.